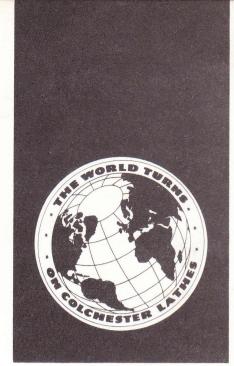
FC. G. 5508.



Registered Trade Mark

standard accuracy chart

THE COLCHESTER LATHE COMPANY LIN COLCHESTER ESSEX

Telephone: Colchester 5161 Telex 98255

Telegrams: Lathes, Telex, Colchester

TEST	PERMISSIBLE ERROR	TEST	PERMISSIBLE ERROR	
	ACTUAL ERROR		ACTUAL ERROR	
TAILSTOCK WAY ALIGNMENT	Max. Reading along Length of Bed 0.0125 mm in 1200 mm	HEADSTOCK ALIGNMENT—VERTICAL	High at end of 300 mm Test Bar rising towards Tailstock End 0 to 0.0125 mm	
	0.0125.		0.0025.	
2	Total Indicator Reading 0 to 0.01 mm	7	At end of 300 mm Test Bar 0 to + 0.015 mm toward tool pressure	
SPINDLE CENTER RUNOUT	0.0050	HEADSTOCK ALIGNMENT—HORIZONTAL	0.0075.	
3	Total Indicator Reading 0 to 0.0075 mm	TAILSTOCK SPINDLE ALIGNMENT—	Forward at end of Spindle when fully extended 0 to 0.010 mm	
SPINDLE NOSE RUNOUT	0.0050	HORIZONTAL	0.0025	
4	Total Indicator Reading with Indicator on face of Spindle 0 to 0.0075 mm	9	High at end of Spindle when fully extended 0 to 0.0125 mm	
CAM ACTION OF SPINDLE	0.0025	TAILSTOCK SPINDLE ALIGNMENT— VERTICAL	0.0050	
5	Total Indicator Reading at end of 300 mm Test Bar 0 to 0.015 mm. At end of Spindle Nose 0 to 0.0075 mm	10	End of 300 mm Test Bar 0 to + 0.020 mm toward tool pressure	
SPINDLE TAPER RUNOUT	0.0050	TAILSTOCK TAPER ALIGNMENT— HORIZONTAL	0.0075.	

		The state of the s		
TEST	PERMISSIBLE ERROR	TEST	PERMISSIBLE ERROR	
	ACTUAL ERROR		ACTUAL ERROR	
	High at end of 300 mm Test Bar 0 to 0.0125 mm	16 150 mm	Must turn round 0.0025 mm. Must turn cylindrical on 150 mm length of workpiece 0.01 mm	
TAILSTOCK TAPER ALIGNMENT— VERTICAL	0.010	WORK MOUNTED IN CHUCK	0.010	
12	High at Tailstock 0 to 0.020 mm	17 300mm.	Must turn cylindrical on a 300 mm length of workpiece 0.010 mm	
VERTICAL ALIGNMENT OF HEAD AND TAIL CENTERS	0.020	WORK MOUNTED IN CENTERS	0.010	
13	Maximum 0.0075 mm	18 LEADSCREW LEAD PER 300 mm LEAD IN ANY 100 mm	± 0.025 mm 0.025 ± 0.010 mm 0.010	
LEADSCREW CAM ACTION 0.00		19 BACK LASH ON CROSS FEED SCREW	0.10 mm	
or concavon 300 diame 0 to 0.012	To face hollow or concave only on 300 mm diameter	ON COMPOUND REST SCREW	0.075 0.10 mm	
	0 to 0.0125 mm	20 INDEXING OF SQUARE TURRET	0.025 mm	
15		21		
	On diameter 0 to 0.0125 mm On face at normal diameter 0 to 0.025 mm	A X BED LEVEL - TRANSVERSE	Bed level A-A: Zero X:+0.050	
FACE PLATE RUNOUT	0.025	SES METER INSIGNATION		Beau

INSPECTED BY AT Shat MACHINE NO. FCG. 5508.

COLCHESTER LATHES

fitted with

GAMET

Precision Machine Tool Spindle Bearings

turn ROUND within

one tenth of a thou!

(0,0025mm.)

COMPARE THIS WITH THE FOLLOWING TOLERANCES

Schlesinger Finish Turning Lathe Schlesinger Toolroom Lathe American Toolroom Lathe 0,010 mm. 0,005 mm. 0,0075 mm.



This 'TALYROND'
graph indicates
the deviation
from true
roundness on a
sample workpiece
turned on this lathe

DEVIATION 0. 00150